

Title (en)

Electro-hydraulic control apparatus for a motor-vehicle transmission with at least five forward gears and one reverse gear

Title (de)

Elektrohydraulisches Steuergerät für ein Kraftfahrzeuggetriebe mit mindestens fünf Vorwärtsgängen und einem Rückwärtsgang

Title (fr)

Appareil de commande électrohydraulique pour transmission de véhicule à moteur ayant au moins cinq marches avant et une marche arrière

Publication

EP 2072867 B1 20100224 (EN)

Application

EP 07425798 A 20071218

Priority

EP 07425798 A 20071218

Abstract (en)

[origin: EP2072867A1] The control system comprises, in its version intended for a double-clutch transmission, first, second and third shift forks (12, 18, 16) each movable into first and second engagement positions to engage a respective gear, of which the first shift fork (12) is able to engage at least the first gear (I) and the second shift fork (18) is able to engage at least the second gear (II), first, second and third double-acting hydraulic actuators (22, 28, 26) arranged to control each the displacement of a respective shift fork (12, 18, 16) into the first or second engagement position, of which the first hydraulic actuator (22) is associated to the first shift fork (12) and the second hydraulic actuator (28) is associated to the second shift fork (18), a slide valve (52) selectively movable into one of at least three operating positions in each of which the slide valve (52) selects a respective hydraulic actuator (22, 28, 26), and first and second gear shift solenoid valves (56, 54) for controlling the supply of fluid to the hydraulic actuator (22, 28, 26) each time selected by the slide valve (52) or the connection of that actuator to a tank. The first shift fork (12) is movable into the engagement position of the first gear (I) upon energization of the first gear shift solenoid valve (56), whereas the second shift fork (18) is movable into the engagement position of the second gear (II) upon energization of the second gear shift solenoid valve (54).

IPC 8 full level

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CPC (source: EP US)

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